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VII. *Some Observations of Eclipses of Jupiter's Satellites, made by Geo. Lynn, Esq; at Southwick, near Oundle in Northamptonshire ; Communicated in a Letter to James Jurin, M.D. F. R. S. and Fellow of the Royal College of Physicians, London.*

S I R,

**H**EARING that some Foreigners enquired for Observations of the Eclipses of *Jupiter's Satellite*, I have sent what I had of that Sort : They are indeed but few these two last Years, on account of my Absence during part of the Time for Observation, and also on account of the small Arc *Jupiter* has lately made above our Horizon. The Telescope I made use of is the same as formerly, having a thirteen Foot Object-Glass, with an Aperture of two Inches and four Tents, and an Eye-Glass of two Inches and an half Focus. By apparent Time, at *Southwick, near Oundle in Northamptonshire*, Longitude West from *London*, 00 Deg. 30 Min. as follows :

	Month.	D.	h.	'	"
1730. The 2d Satellite began to emerge		April 29	10 19	20	
It seemed in a Minute after to be as bright as the 4th Satellite			20	20	
And at full Brightness about			21	20	The

Month. D. h. / " "

- 17<sup>22</sup><sub>30</sub>. The 4th Satellite emerged *Jan. 25* 9 45 nearly  
 17<sub>30</sub>. The 2d began to immerge *Nov. 28* 13 17 46  
     And was quite out of Sight at 19 46  
 17<sub>31</sub>. The 2d began to emerge *March 29* 11 33 8  
     And seem'd at full Brightnes about 36 30  
     The 1st Satellite began } *April 18* 11 45 10  
     to emerge — }  
     And was at full Brightnes about 46 10  
     Again the 1st began to emerge *May 4* 10 4 30  
     Was at full Brightnes about — 5 45  
     And passed by the 3d Satellite at 11 49 30  
 17<sup>30</sup><sub>31</sub>. The 1st Satellite began to } *Jan. 7* 12 2 55  
     immerge — }  
     And was quite out of Sight about 4 25  
 17<sup>31</sup><sub>32</sub>. The 3d Satellite began to } *Jan. 28* 14 16 00  
     immerge — }  
     Was but equal in Light to the 2d at 19 00  
     Quite gone at — — 24 00  
 17<sub>32</sub>. The 2d Satellite began } *April 30* 12 23 57  
     to emerge — }  
     The 1st Satellite began } *May 6* 12 48 44  
     to emerge — }  
 17<sup>12</sup><sub>33</sub>. The 3d Satellite quite } *Febr. 18* 13 5 30  
     disappeared — }  
 17<sub>33</sub>. Again the 3d Satellite } *April 2* 13 3 30  
     disappear'd — }  
     But it began to fail of its Light  
         about 5 or 6 Minutes before.  
 17<sub>35</sub>. The 2d Satellite immerged *May 28* 10 45 00  
     The 3d began to emerge *August 3* 9 10 30  
     And was 4 or 5 Minutes before it came to its full  
         Brightnes.